ENVIRONMENTAL CHEMISTS

Date of Report: February 29, 1996 Date Received: February 22, 1996

Project: 24 hr. Metro (ACW), PO #52384 Date Samples Extracted: February 23, 1996 Date Extracts Analyzed: February 26, 1996

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, AND ZINC USING METHOD 6010

Samples Processed Using Method 3005

Results Reported as µg/L (ppb)

Sample ID		Chromium	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
		0.17	0.16	0.11	< 0.05
Method Blan	k	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: February 29, 1996 Date Received: February 22, 1996

Project: 24 hr. Metro (ACW), PO #52384

QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC Samples Processed Using Method 3005

Laboratory Code: KE66682DU

그가 작업이 동병이 되었다.	요리에 잃었지 않다. 이렇게		Relative	
Reporting	Sample	Duplicate	Percent	Acceptance
Analyte: Units	Result	Result	Difference	Criteria -
		u Mhairini	a waterwatewa	
Chromium ug/L (ppb)	0.17	0.17	0	0-20
Copper ug/L (ppb)	0.16	0.16	0	0-20
Nickel ug/L (ppb)	0.11	0.10	10 a	0-20
Zinc ug/L (ppb)	< 0.05	< 0.05	nm	0-20

Laboratory Code: KE66682MS/MSD

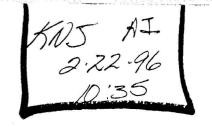
	d apprint the part						Relative
[일이 가니다 나무네	Reporting	Spike	Sample	% I	lecovery	Acceptance	Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
		tarit, g beiding					
Chromium	ug/L (ppb)	5	0.17	94	98	80-120	4
Copper	ug/L (ppb)	5	0.16	93	94	80-120	111111
Nickel	.ig/L (ppb)	10	0.11	96	99	80-120	3
Zinc	ıg/L (ppb)	5	< 0.05	95	99	80-120	4

Laboratory Code: Spike Blank

Sa Alle					o jiya alibo	Relative
	Reporting	Spike	% Re	ecovery	Acceptance	Percent
Analyte:	Units	Level	MS	MSD	Criteria	Difference
	걸음 얼마를 다					
Chromium	ug/L (ppb)	5	106	103	80-120	3
Copper	ug/L (ppb)	5	103	101	80-120	2
Nickel	ug/L (ppb)	10	107	103	80-120	4
Zinc	ug/L (ppb)	5	106	102	80-120	. 4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.



SAMPLE CHAIN OF CUSTODY

Company To: ALAS	OF TO: ALASKAN COPPER				Contact Garald Thomason			
Address 623	HANFORD 6	10-		1000-1000	e e e e e e e e e e e e e e e e e e e	250494		
Phone # 206 /	632-5800	3		Date				
SITE NO.			ECT NAME			ASE ORDER #		
7238		24 hr M	atro	(ACW) A	15238	-1		
SAMPLERS (signature)				<u> </u>		TLOCATION		
	intul			3:	200 614	Ava		
REMARKS					SAMPLE DISPO	SAL INFORMATION		
					Return Sa	fter 30 days imples instructions		
	Date/Time	Type of	# of	Lab		Analyses		
San ole #	Sampled	Sample	Jars	Sample #	· · · · · · · · · · · · · · · · · · ·	Requested		
M 52334	2-22-95 100	H20	1	66682	Cr Cu	N/2n		
discharging								
				· ·				
SIGNATUE	PRI	NT NAME		COMPANY	3.00	Date Time		
Presinguished is fally	- IAROSLAL	KOLBE	L ALA	SILAN COP	ER 2-22	1-96 10:35		
Received by Relinquished	ing Athy	DOWNIN	6 FY	BI	2.2	2.96 10:35		
Received by:	<i>U</i> '		-					
	i		1		ı	1 1		

FORMS/CC

09/19/94

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

February 29, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on February 22, 1996 from your 24 hr. Metro (ACW), PO #52384 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson

Chemist

keh

Enclosures

FAX: 382-7335 ACU0229R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

February 29, 1996

INVOICE # 96ACU0229-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 24 hr. Metro (ACW), PO #52384: Results of testing requested by Gerry Thompson, Project Manager for material submitted on February 22, 1996.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$65 per sample \$65.00

Amount Due \$65.00